



Indiana Stroke Prevention Task Force Hospital Survey Results

In 2004 Governor Joe Kernan and the Indiana General Assembly approved the creation of the Indiana Stroke Prevention Task Force (SPTF). Among the SPTF mandates was an assessment of the capability of hospitals throughout the state of Indiana in treating patients who have had acute strokes. To fulfill the SPTF mandate, a survey was created to assess the availability of services required by acute stroke patients. There are two types of hospitals in Indiana that treat acute stroke patients; 1) Critical Access Hospitals (25 beds or less) and 2) Short Term Hospitals (acute care hospitals with over 25 beds). In 2007-2008 this survey was mailed to all Critical Access and Short Term Hospitals in Indiana. In 2009, a survey highlighting the evidence based stroke performance measures was distributed to all Indiana Critical Access and Short Term Hospitals via email. This poster presents the SPTF survey results of acute stroke treatment in the State of Indiana.

Indiana has:

**35 Critical Access Hospitals
88 Short Term Hospitals
Total of 123 Hospitals**

Response Rates

**34 Critical Access: 97%
65 Short Term: 74%
92 Counties**

- 75 Counties with hospitals**
- 68 Counties represented in data (74%)**

7 Counties with hospitals but NO response to survey

- Warrick County**
- Madison County**
- Clinton County**
- Miami County**
- Porter County**
- Bartholomew County**
- Fayette County**

2007-2008 Data

Critical Access Hospitals EMERGENCY ROOM QUESTIONS (N=34)	
100% transfer out strokes 11 (33%) transfer all strokes 21 (62%) transfer hemorrhagic strokes 11 (33%) transfer severe ischemic strokes	Factors that affect transfer: 30 (89%) Family/patient factors 27 (80%) Expertise/Primary stroke certification 21 (62%) Geographic 9 (27%) System alliances
Emergency room protocols 19 (56%) tPA orders 15 (44%) Standing orders/pathway 10 (30%) Medical management 5 (15%) No protocols	Physician stroke training 6 (18%) None 14 (42%) Competency 19 (56%) Inservice 4 (12%) Video 1 (3%) Symposia
Designated stroke team 31 (92%) No 3 (9%) Yes	Lab 24/7 in 45 minutes 31 (92%) Yes 1 (3%) No 2 (6%) Don't know
CT scan 24/7 in 45 minutes 32 (94%) Yes 2 (6%) No	MRI scan 24/7 27 (80%) No 7 (21%) Yes
Access to Neurologist 31 (92%) Yes (all by phone) 3 (9%) No	tPA availability 30 (89%) Yes 2 (6%) No 2 (6%) Don't know

Critical Access HOSPITAL QUESTIONS (N=33) 1 Blank Form	
Managed by a Neurologist 28 (85%) No 4 (13%) Yes 1 (2%) Don't know	
Written standing orders/pathways 26 (79%) No 7 (21%) Yes	Stroke code 27 (82%) No 6 (18%) Yes
Discharged on stroke prophylaxis 20 (61%) Yes 1 (3%) No 12 (36%) Don't know	Rehab services in house 27 (82%) Yes 2 (6%) No 4 (12%) Don't know
Acute Rehab in area 22 (67%) Yes 10 (30%) No 1 (3%) Don't know	CT scan 24/7 30 (91%) Yes 3 (9%) No
Lab 24/7 30 (91%) Yes 2 (6%) No 1 (3%) Don't know	Transfer admitted patients with stroke 27 (82%) Yes 3 (9%) Sometimes 2 (6%) No 1 (3%) Don't know

2009 Stroke Treatment Performance Measures N=48

Critical Access Hospitals=11 (Response Rate 31%)

Short Term Hospitals=34 (Response Rate 39%)

Does your hospital have a designated stroke team? (N=48)		21 (44%) Yes	27 (56%) No
Does your hospital have (N=34)			
a. Preprinted admission orders and/or		30 (88%) Yes	b. Clinical pathway for stroke patients? 18 (53%) Yes
If an inpatient suffers a stroke, is there a rapid response or stroke team to call? (N=48)			
		36 (75%) Yes	12 (25%) No
Which physicians care for stroke admits? (N=48)			
a. Neurologist		32 (67%)	b. Intensivist/Hospitalist 26 (54%)
		c. Family MD	36 (75%)
		d. Internist	28 (54%)
What % of ischemic stroke patients are assessed for their need of rehabilitation as part of discharge planning? (N=45)			
95-100%: 31 (69%) 90-94% : 5 (11%) 80-90% : 1 (2%) 75-80% : 1 (2%) Don't know: 7 (16%)			
Who does the need for rehab assessment? (N=47)			
a. PT/OT/Speech therapies		29 (62%)	b. Physician 30 (64%)
		c. Nursing Services	20 (43%)
		d. Other	1 (2%)
What % receive rehab services in any setting following discharge? (N=33)			
95-100%: 3 (9%) 90-94%: 1 (3%) 80-90% : 3 (9%) 70-80%: 5 (15%) >50%: 3 (9%) 30%: 1 (3%) Don't know:17 (52%)			
What % of ischemic stroke patients who are in atrial fibrillation are placed on anticoagulation? (N=38)			
		51-79%:4 (11%)	>80%:34 (90%)
What are the primary reasons atrial fibrillation patients do not receive anticoagulation? (N=33)			
a. Allergy		3 (9%)	b. Age 6 (18%)
		c. Medication interaction	3 (9%)
		d. Patient compliance	7 (21%)
		e. Fall risk	10 (30%)
Do ischemic stroke patients receive:			
a. DVT prophylaxis is 24 hrs?		38 (83%) Yes N=46	b. Bedside dysphagia screen within 24 hrs? 33 (72%) Yes N=46
c. Consult for speech pathologist to assess swallowing?		44 (96%) Yes N=46	d. Antithrombotics by post stroke day 2? 32 (71%) Yes N=45
e. Antithrombotics by discharge?		37 (80%) Yes N=46	f. Physical therapy consult within 24 hrs? 38 (83%) Yes N=46
g. Occupational therapy consult within 24 hrs? 36 (78%) Yes N=46			
h. Printed information given on signs and symptoms of stroke?		35 (76%) Yes =46	i. ...on risk factors of stroke? 33 (70%) Yes N=47
j. ...on tobacco cessation?		44 (96%) Yes N=46	k. Statins ordered on discharge? 31 (66%) Yes N=47
Does your hospital offer formal education classes to the community on:			
a. Tobacco cessation		31 (65%) Yes N=48	b. Low cholesterol diet 29 (63%) Yes N=46
c. Diabetes management		40 (85%) Yes N=47	d. Blood pressure management 22 (48%) Yes N=46
e. Signs and symptoms of stroke		17 (39%) Yes N=44	f. Risk factors for stroke 16 (36%) Yes N=44
g. Depression		12 (27%) Yes N=44	h. Caregiver support 14 (31%) Yes N=45

Short Term Hospitals EMERGENCY ROOM QUESTIONS N=64)	(1 hospital had no ER in 2007)
Transfer out strokes: 22 (34%) Do not transfer strokes 4 (7%) Transfer all strokes 39 (61%) Transfer hemorrhagic strokes 24 (38%) Transfer severe ischemic strokes	Factors that affect transfer: 32 (50%) Expertise/Primary stroke certification 29 (46%) Family/patient factors 16 (25%) Geographic 8 (13%) System alliances
Emergency room protocols 44 (69%) tPA orders 35 (55%) Standing orders/pathway 30 (47%) Medical management 9 (14%) No protocols	ER staff stroke training 12 (19%) None 38 (60%) Inservice 25 (39%) Competency 12 (19%) Video 11 (18%) Symposia
Designated stroke team 44 (69%) No 21 (33%) Yes 1 (2%) Don't know	Lab 24/7 in 45 minutes 62 (97%) Yes 2 (4%) No
CT scan 24/7 in 45 minutes 61 (96%) Yes 1 (2%) No	MRI scan 24/7 37 (58%) Yes 24 (38%) No 3 (5%) Don't know
Access to Neurologist (N=52) 50 (94%) Yes: (75%) Phone (29%) In person 2 (4%) No	tPA availability 58 (92%) Yes 3 (5%) No 3 (5%) Don't know
HOSPITAL QUESTIONS (N = 65)	
Managed by a Neurologist 43 (66%) Yes 17 (27%) No 3 (4%) Don't know 2 (3%) Sometimes	Transfer admitted patients with stroke 36 (56%) No 17 (26%) Yes 2 (3%) Don't know 10 (15%) Sometimes
Written standing orders/pathways 45 (70%) Yes 18 (28%) No 2 (2%) Don't know	Stoke Code 36 (55%) No 28 (43%) Yes 1 (2%) Don't know
Discharged on stroke prophylaxis 49 (75%) Yes 2 (3%) No 14 (22%) Don't know	Rehab services in house 60 (92%) Yes 2 (3%) No 3 (5%) Don't know
Acute Rehab in area 53 (82%) Yes 11 (17%) No 1 (1%) Don't know	CT scan 24/7 61 (94%) Yes 1 (2%) No 3 (4%) Don't know
Lab 24/7 62 (95%) Yes 2 (3%) No 1 (2%) Don't know	